Fractions, Mass and Capacity

Lesson sequence

Understand denominators / numerators / whole
Compare and order fractions
Fractions on a number line
Equivalent fractions
Use scales
Measure mass in grams and kilograms
Measure capacity and volume in millilitres and litres

Sticky learning

New Knowledge

- *To recognise equivalent fractions*
- *To know that a denominator is the bottom number in a fraction which shows the equal number of parts something is divided into*
- *To know that a numerator is the top number in a fraction which shows the how many parts there are out of the whole*
- *To know that fractions can be ordered on a number line*
- *To know that we use kg/g to measure mass and l/ml to measure capacity*

New Skills

- *To count up and down in tenths*
- *To find and write fractions of a discrete set of objects*
- *To compare and order unit fractions, and fractions with the same denominators*
- *To show equivalent fractions*
- *To add and subtract fractions with the same denominator*
- *To solve problems that involve all of the above*
- *To measure, compare, add and subtract mass (kg/g) and volume/capacity (l/ml)*

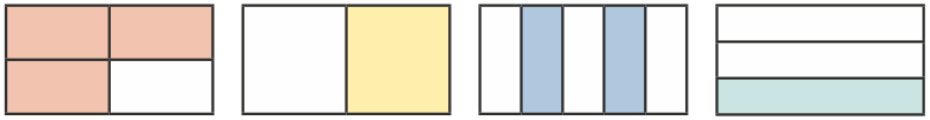
Vocabulary revision

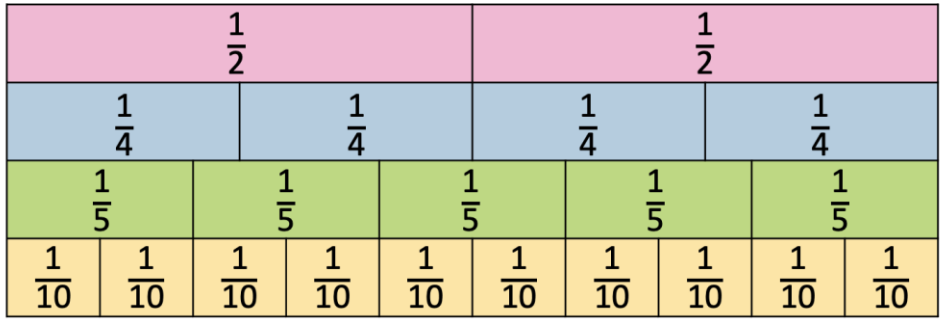
- *More, less*
- *Estimate*
- *Compare*
- *Order, Size*
- *Equal parts*
- *Fraction*
- *One whole*
- *Half, Quarter*
- *Share, Divide*
- *Equal groups*
- *Numerator, Denominator*
- *Weight*
- *Balance*
- *Scales*
- *Heavy, Light*

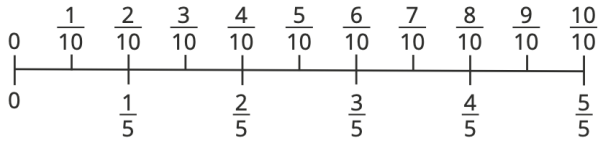
New vocabulary I will learn

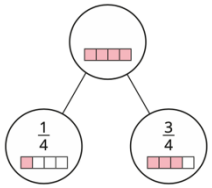
- *One third, Two thirds, Three thirds …*
- *One tenth, Two tenths, Three tenths …*
- *Equivalence*
- *Mass*
- *Volume*
- *Capacity*

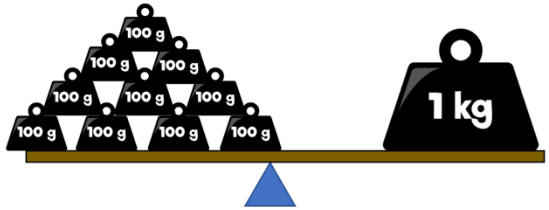
Pictorial representations











Concept Links / Prior Knowledge

- *To know the < sign means less than*
- *To know the > sign means greater than*
- *To compare and order numbers from 0 up to 100*
- *To identify, represent and estimate numbers using different representations, including the number line*
- *To know different terminology for addition such as put together, add, altogether, total, more than*
- *To know different terminology for subtractions such as take away, distance between, difference between and less than*
- *To know that division is breaking a number up into equal parts, and finding out how many equal parts can be made*
- *To know that a half is one of two equal parts of an object, shape or quantity*
- *To know that a quarter is one of four equal parts of an object, shape or quantity*
- *To know that a fraction is splitting a whole (number/shape etc.) into parts*
- *To know that mass is how heavy something is*
- *To know words to describe mass/weight such as heavy/light, heavier than, lighter than*
- *To know that capacity/volume is the amount of liquid in a container*
- *To know words to describe capacity and volume such as full/empty, more than, less than, half, half full, quarter*